

Table 1. Demographic characteristics of the study population	
Age (years)	65.4 ± 1.2
Gender	
Male	50.0
Female	50.0
Education (years)	12.5 ± 0.5
Marital status	
Married	60.0
Single	40.0
Occupation	
Retired	70.0
Unemployed	30.0
Income (USD/month)	1,200 ± 200
Health status	
Good	60.0
Poor	40.0
Comorbidities	
Hypertension	45.0
Diabetes	35.0
Cholesterol	55.0
Smoking status	
Smoker	20.0
Non-smoker	80.0
Alcohol consumption	
Regular	10.0
Occasional	30.0
Never	60.0

A method and apparatus is provided for depositing and planarizing a material layer on a substrate. In one embodiment, an apparatus is provided which includes a partial enclosure, a permeable disc, a diffuser plate and optionally an anode. A substrate carrier is positionable above the partial enclosure and is adapted to move a substrate into and out of contact or close proximity with the permeable disc. The partial enclosure and the substrate carrier are rotatable to provide relative motion between a substrate and the permeable disc. In another aspect, a method is provided in which a substrate is positioned in a partial enclosure having an electrolyte therein at a first distance from a permeable disc. A current is optionally applied to the surface of the substrate and a first thickness is deposited on the substrate. Next, the substrate is positioned closer to the permeable disc and a second thickness is deposited on the substrate. During the deposition, the partial enclosure and the substrate are rotated relative one another.